

Title (en)

SELF-WINDING POWER GENERATING TIMEPIECE

Title (de)

SICH SELBSTAUFZIEHENDES LEISTUNGSGENERIERENDES UHRWERK

Title (fr)

COMPTEUR DE TEMPS A REMONTAGE AUTOMATIQUE ET GENERATION DE PUISSANCE

Publication

**EP 1001319 A4 20050119 (EN)**

Application

**EP 99945696 A 19990406**

Priority

- JP 9901820 W 19990406
- JP 9557698 A 19980408
- JP 10624998 A 19980416

Abstract (en)

[origin: EP1001319A1] A self-winding electric power generation watch capable of having an additional function structure besides a time indication and an electric power generation function by virtue of an efficient arrangement of train wheels and motors for watch, electric power generation, and additional function in a watch case. An electric power generation motor 12 for conducting self-winding electric power generation by means of rotation of a rotary weight 41a, a watch motor 11 driven by electric power of the electric power generation motor 12, a storage battery 14 for storing the electric power of the electric power generation motor 12, and a chronograph motor 13 driven by the electric power of the electric power generation motor 12 are arranged in a watch case so as to surround a center part of the watch. Watch train wheels 20 and 30, an electric power generation train wheel 40, and a chronograph train wheel 50 are disposed in a two-layer form in a region surrounded by the motors. <IMAGE> <IMAGE>

IPC 1-7

**G04C 10/00**; G04F 8/02; G04C 3/00; G04C 3/14

IPC 8 full level

**G04C 3/00** (2006.01); **G04C 10/00** (2006.01)

CPC (source: EP US)

**G04C 3/008** (2013.01 - EP US); **G04C 10/00** (2013.01 - EP US)

Citation (search report)

- [A] EP 0500386 A1 19920826 - CITIZEN WATCH CO LTD [JP]
- [A] US 4939707 A 19900703 - NAGAO SHOICHI [JP]
- [A] EP 0805380 A1 19971105 - SEIKO EPSON CORP [JP]
- See references of WO 9953384A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**EP 1001319 A1 20000517**; **EP 1001319 A4 20050119**; **EP 1001319 B1 20090114**; DE 69940294 D1 20090305; HK 1025155 A1 20001103; US 6244742 B1 20010612; WO 9953384 A1 19991021

DOCDB simple family (application)

**EP 99945696 A 19990406**; DE 69940294 T 19990406; HK 00104247 A 20000711; JP 9901820 W 19990406; US 44780599 A 19991123